

A diagram of the variation of the  $\text{Ga}_{0.52}\text{In}_{0.48}\text{P}/(\text{AlGa})\text{InP}$  heterobarrier height (meV) as a function of aluminium mole fraction in the quaternary alloy assuming a 67:33 band offset ratio

FIG 1

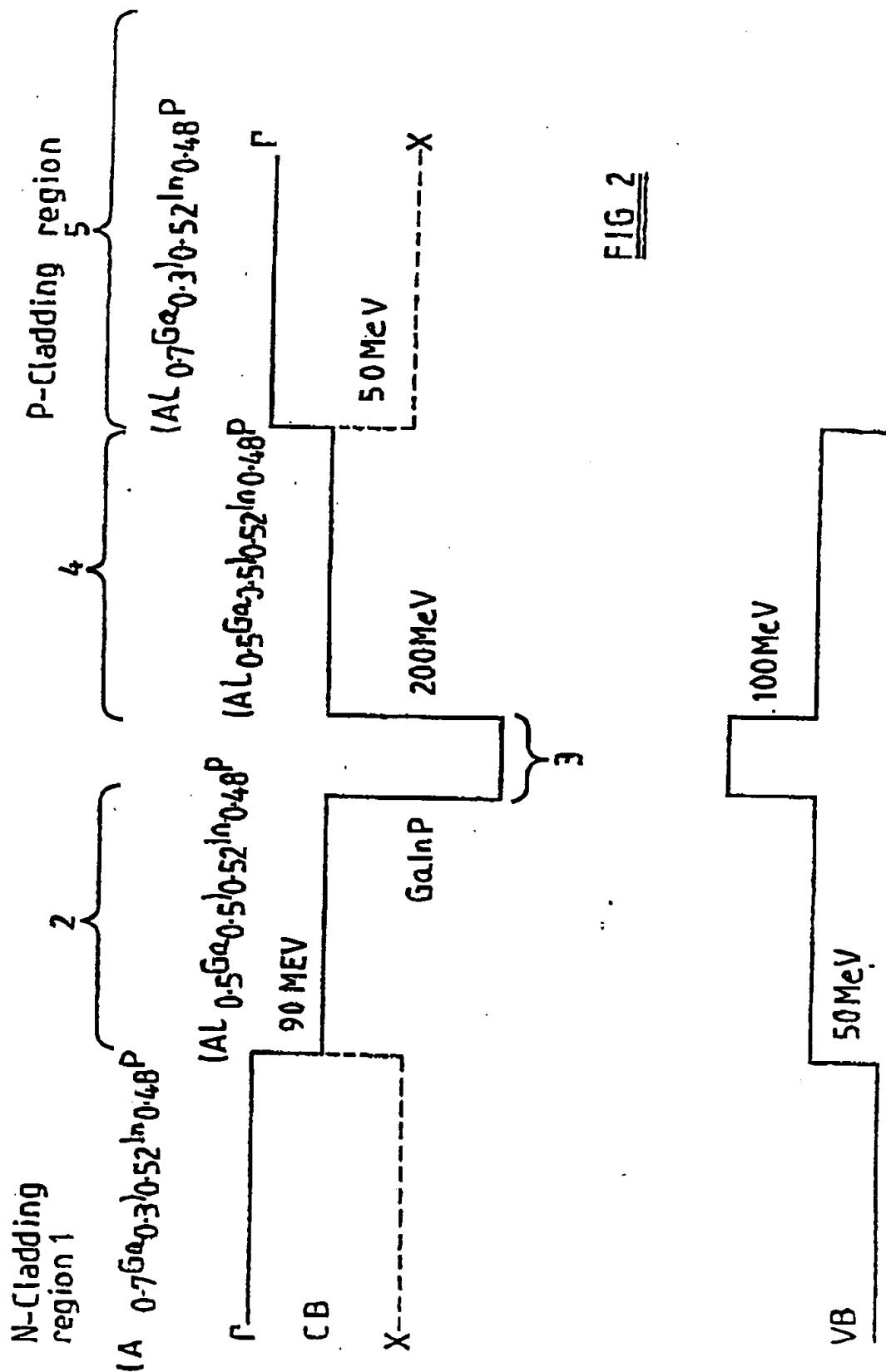


FIG 2

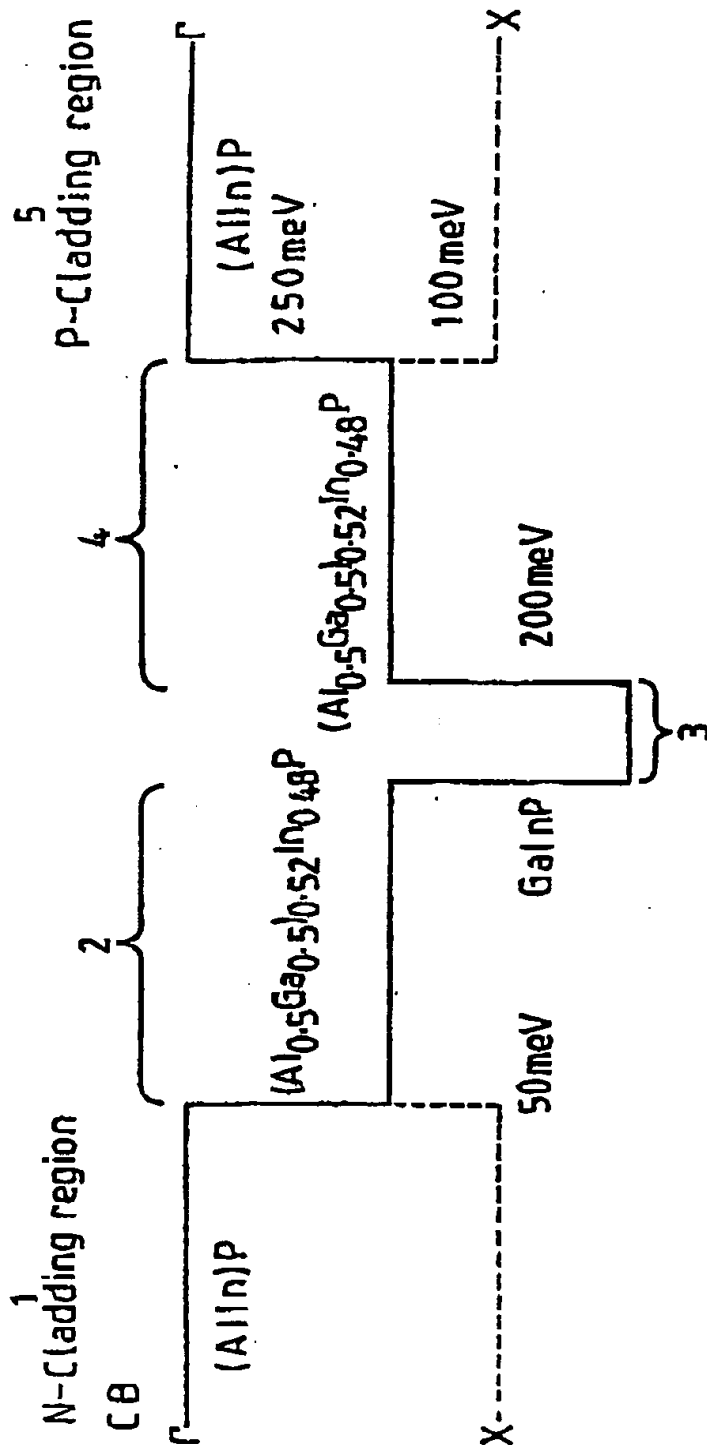
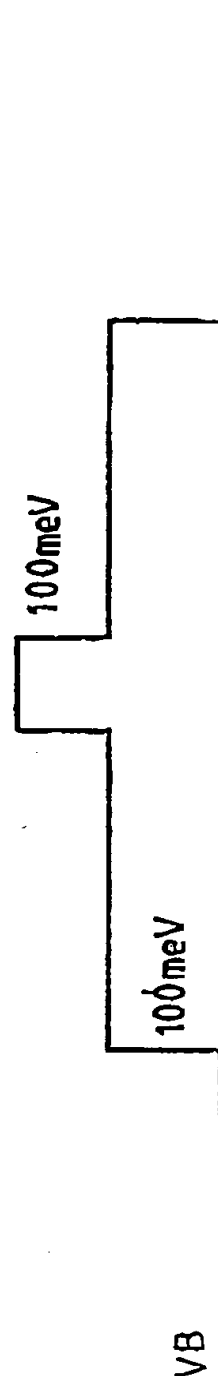
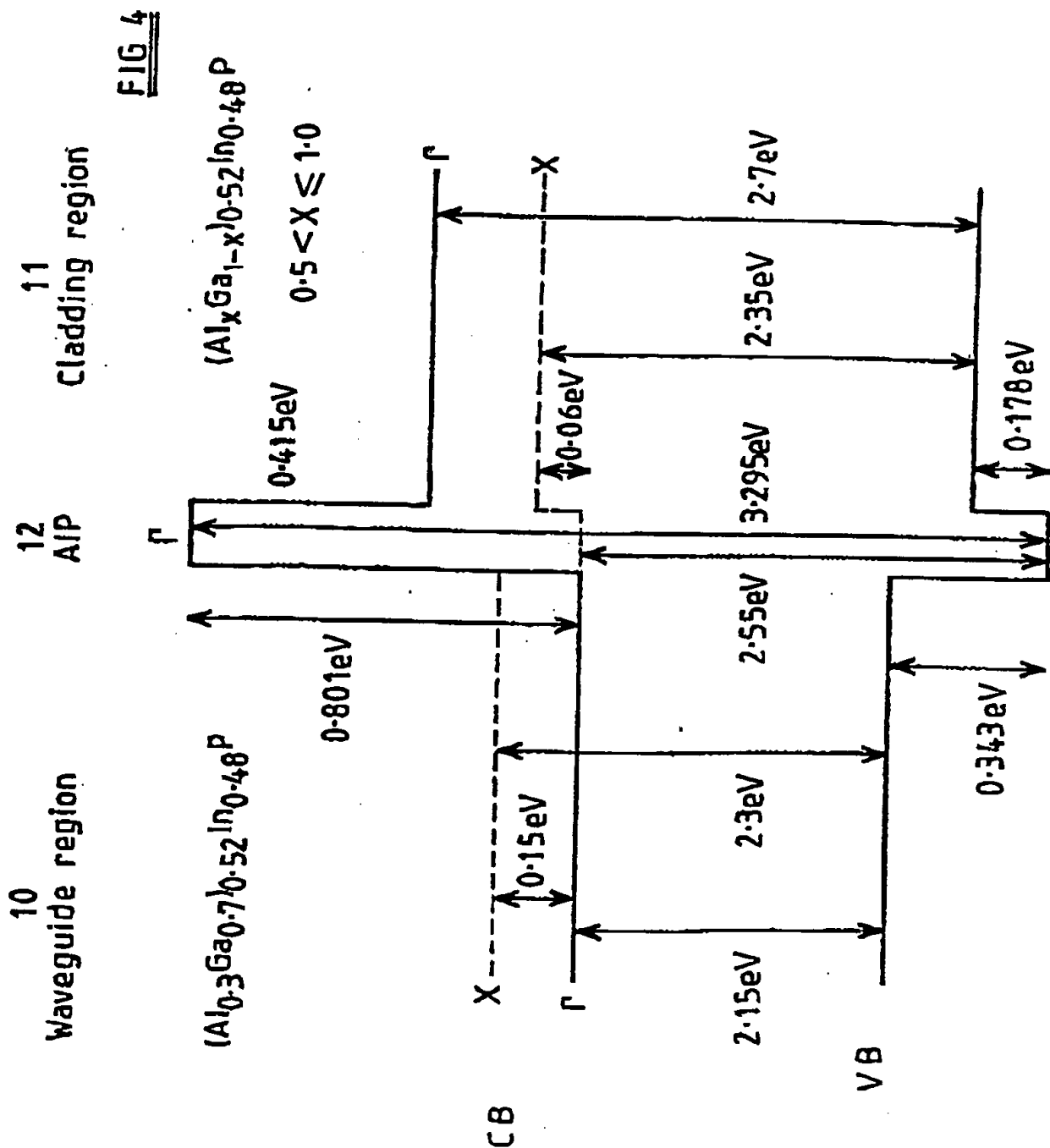
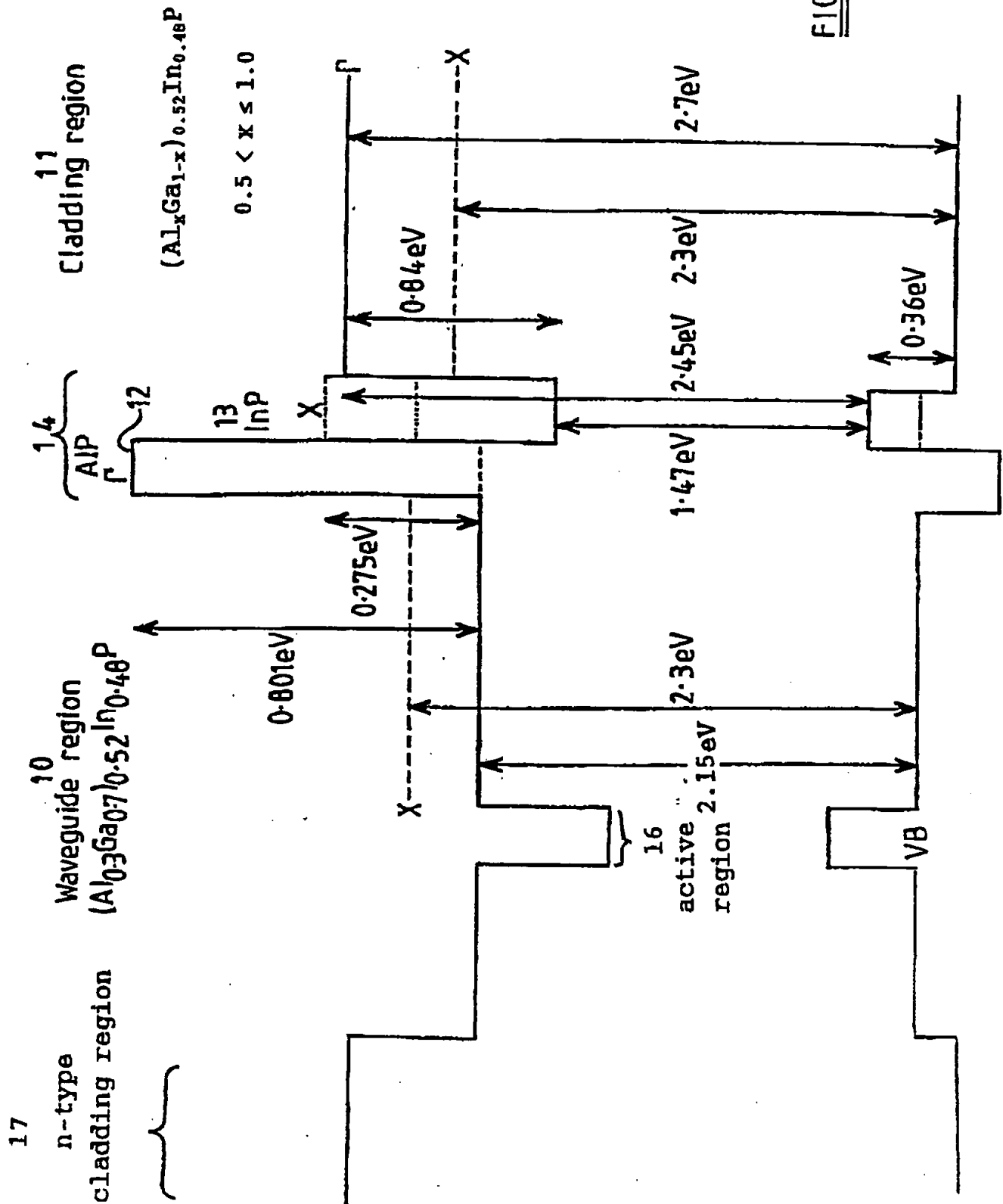


FIG 3







09867-936-0361

## Waveguide region 10

$$\{Al_{0.4}Ga_{0.6}\}_{0.52}In_{0.48}P$$

71

13

**INP AIP**

## Cladding region 11

 $(\text{Al}_x\text{Ga}_{1-x})_{0.52}\text{In}_{0.48}\text{P}$  $0.5 < x \leq 1.0$ 

0.75eV

**0.275eV**

**0.07eV**

As 517.0

**2.2eV**

**2.3eV**

### 2.3 eV

**2.7eV**

**0.178eV**

9513

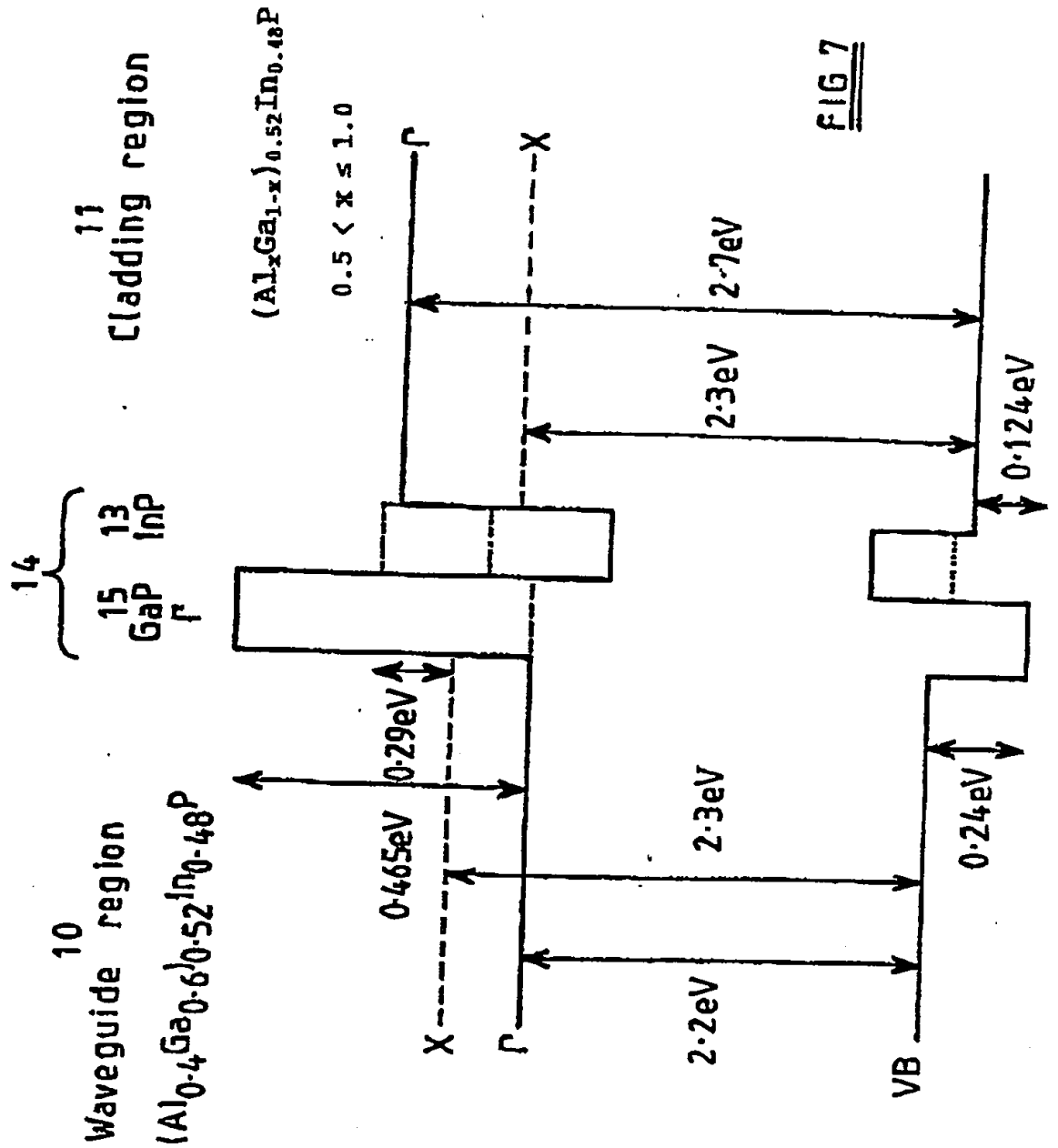


FIG. 2B

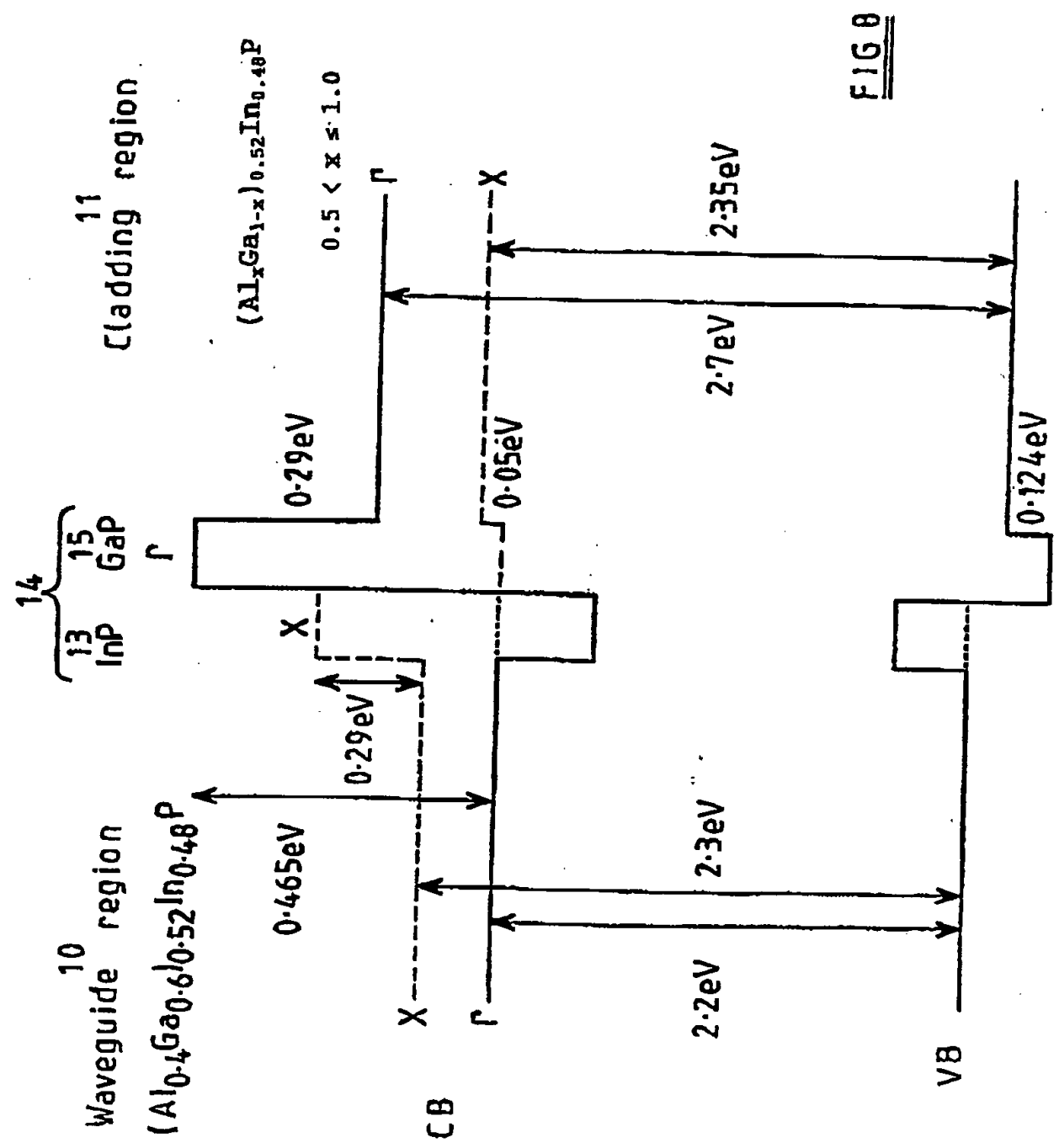
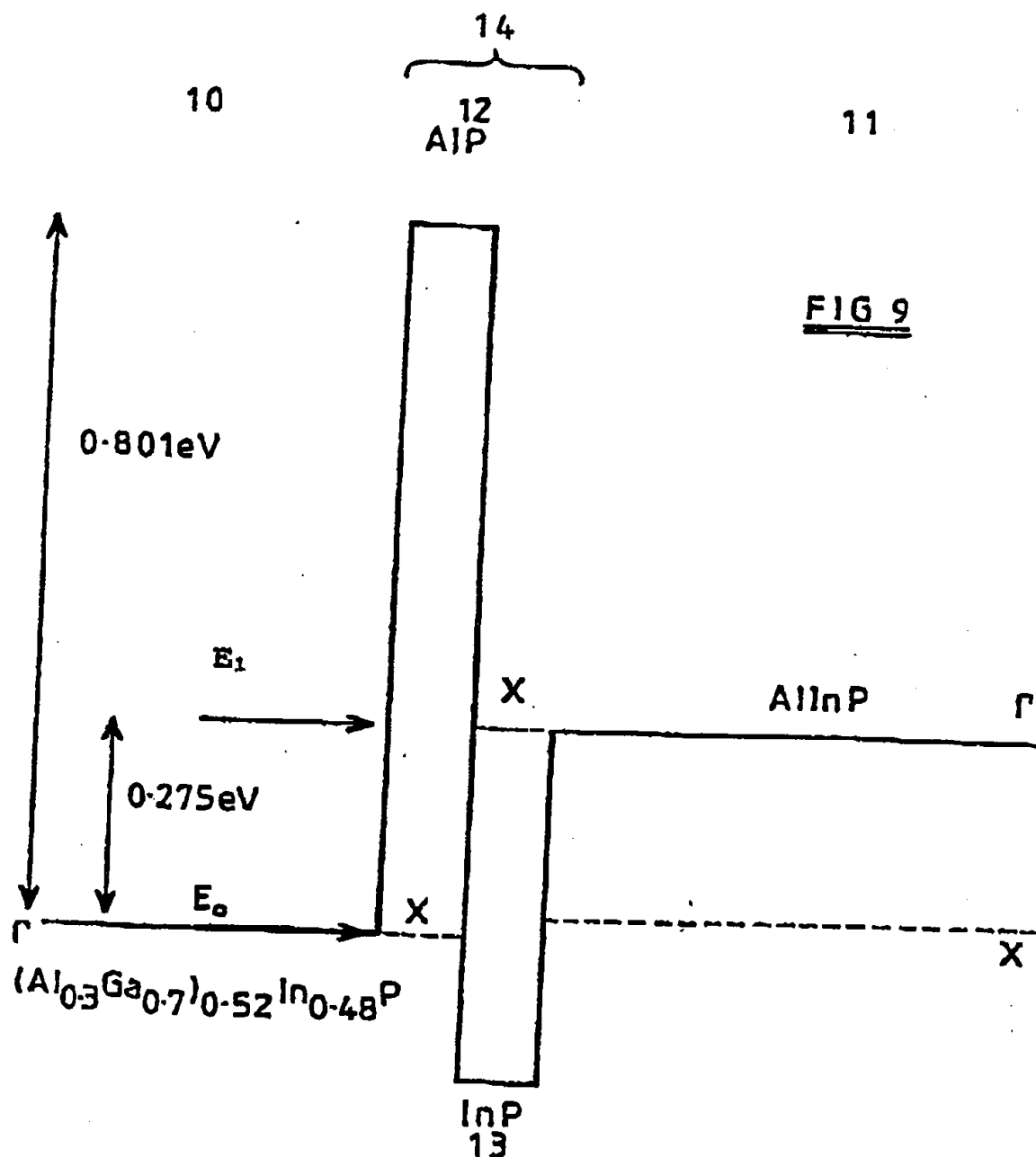


FIG 8





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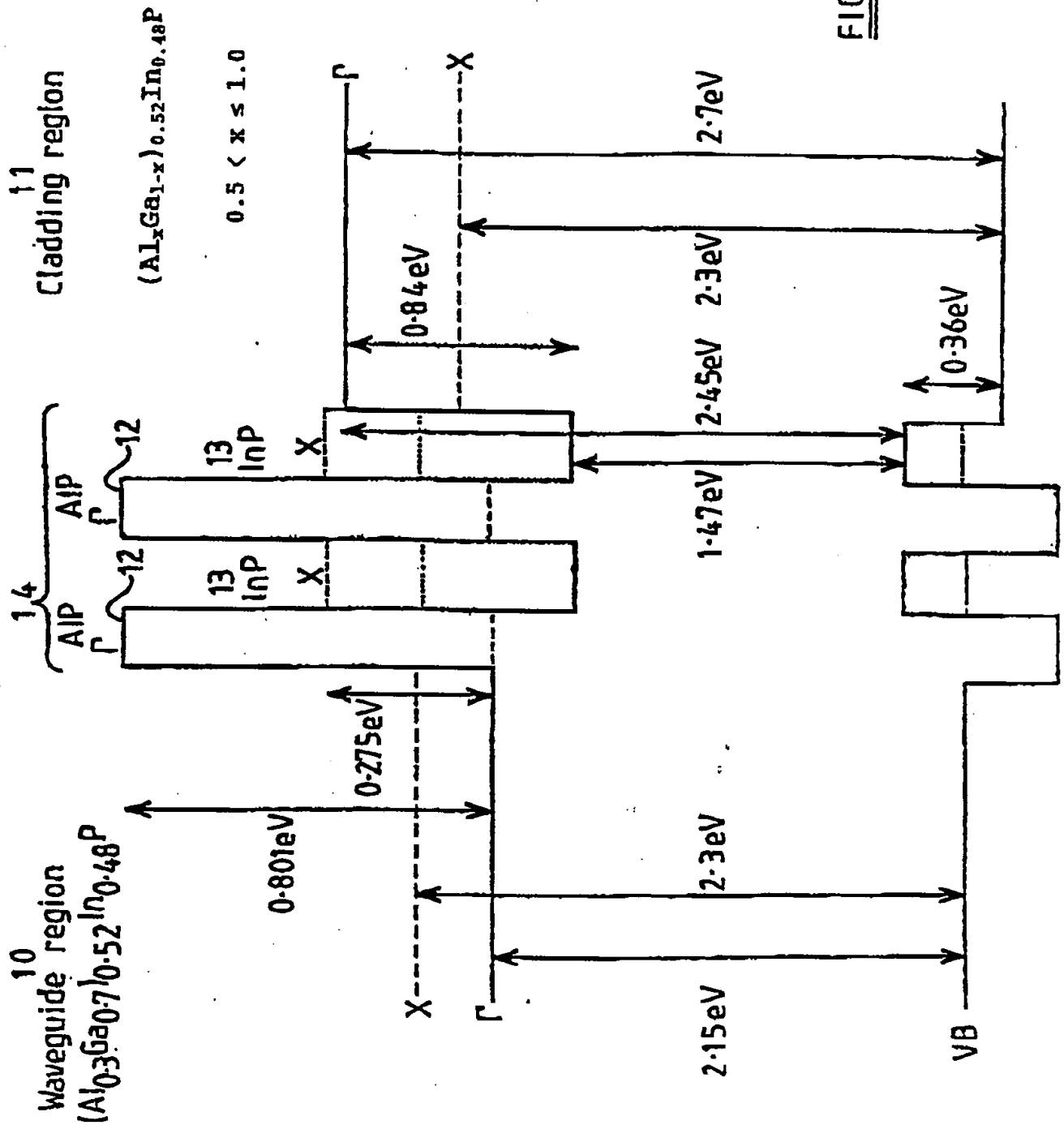


FIG 10

FIG. 2 (continued)

